

Abstract of the Disclosure:

The invention relates to a laser diode including a vertical resonator and to a method for producing the laser diode such that at least one active layer is configured between

5 reflective layers. The invention is characterized by configuring at least one antioxidation layer between the reflective layers, thus preventing distortion caused by unintentional oxidation. The antioxidation layer consists of a III-V semiconductor material with a proportion of a molar
10 aluminum of less than 0.7 and/or a III-V semiconductor material with an optical depth of at least two quarter waves.

15 MPW/nt